

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/084,691DATE: 06/05/98
TIME: 13:20:34

INPUT SET: S26411.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANTS: BUKH, J., MILLER, R.H. AND
6 PURCELL, R.H.
7
8 (ii) TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
9 AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
10 CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
11 AND THE USE OF REAGENTS DERIVED FROM THESE
12 SEQUENCES IN DIAGNOSTIC METHODS AND
13 VACCINES
14
15 (iii) NUMBER OF SEQUENCES: 263
16
17 (iv) CORRESPONDENCE ADDRESS:
18 (A) ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
19 (B) STREET: 345 PARK AVENUE
20 (C) CITY: NEW YORK
21 (D) STATE: NEW YORK
22 (E) COUNTRY: USA
23 (F) ZIP: 10154
24
25 (v) COMPUTER READABLE FORM:
26 (A) MEDIUM TYPE: FLOPPY DISK
27 (B) COMPUTER: IBM PC COMPATIBLE
28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
29 (D) SOFTWARE: WORDPERFECT 5.1
30
31 (vi) CURRENT APPLICATION DATA:
32 (A) APPLICATION NUMBER: TO BE ASSIGNED
33 (B) FILING DATE: 26-MAY-1998
34
35 (vii) PRIOR APPLICATION DATA:
36 (A) APPLICATION NUMBER: 08/290,665
37 (B) FILING DATE: 15-AUG-1994
38
39 (vii) PRIOR APPLICATION DATA:
40 (A) APPLICATION NUMBER: 08/086,428
41 (B) FILING DATE: 29-JUNE-1993
42
43 (viii) ATTORNEY/AGENT INFORMATION:
44 (A) NAME: RICHARD W. BORK
45 (B) REGISTRATION NUMBER: 36,459
46 (C) REFERENCE/DOCKET NUMBER: 2026-4116US2

RAW SEQUENCE LISTING
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47
48 (ix) TELECOMMUNICATION INFORMATION:
49 (A) TELEPHONE: (212) 758-4800
50 (B) TELEFAX: (212) 751-6849
51 (C) TELEX: 421792
52
53 (2) INFORMATION FOR SEQ ID NO:1:
54
55 (i) SEQUENCE CHARACTERISTICS:
56 (A) LENGTH: 576 base pairs
57 (B) TYPE: nucleic acid
58 (C) STRANDEDNESS: single
59 (D) TOPOLOGY: linear
60
61 (vi) ORIGINAL SOURCE:
62 (A) ORGANISM: homosapiens
63 (C) INDIVIDUAL ISOLATE: DK7
64
65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
66
67 TAC CAA GTG CGC AAC TCC ACG GGG CTT TAC CAT GTC ACC 39
68 AAT GAT TGC CCT AAC TCG AGT ATC GTG TAC GAG GCG GCC 78
69 GAT GCC ATC CTG CAC ACT CCG GGG TGT GTC CCT TGC GTT 117
70 CGC GAG GGT AAC GTC TCG AGG TGT TGG GTG GCG ATG ACC 156
71 CCC ACG GTG GCC ACC AGG GAT GGC AAA CTC CCC ACA GCG 195
72 CAG CTT CGA CGT CAC ATC GAT CTG CTC GTC GGG AGT GCC 234
73 ACC CTC TGT TCG GCC CTC TAC GTG GGG GAC CTG TGC GGG 273
74 TCT GTC TTT CTT GTC GGT CAA CTG TTT ACC TTC TCT CCC 312
75 AGG CGC CAC TGG ACG ACG CAA GGC TGC AAT TGT TCT ATC 351
76 TAT CCT GGC CAT ATA ACG GGT CAC CGC ATG GCG TGG GAT 390
77 ATG ATG ATG AAC TGG TCC CCT ACC ACG GCG TTG GTA GTA 429
78 GCT CAG CTG CTC CGG ATC CCG CAA GCC ATC TTG GAC ATG 468
79 ATC GCT GGT GCT CAC TGG GGA GTC CTG GCG GGC ATA GCG 507
80 TAT TTT TCC ATG GTG GGG AAC TGG GCG AAG GTC CTG GTA 546
81 GTG CTG CTG CTA TTT GCC GGC GTC GAC GCG 576
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83
84 (2) INFORMATION FOR SEQ ID NO:2:
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86 (i) SEQUENCE CHARACTERISTICS:
87 (A) LENGTH: 576 base pairs
88 (B) TYPE: nucleic acid
89 (C) STRANDEDNESS: single
90 (D) TOPOLOGY: linear
91
92 (vi) ORIGINAL SOURCE:
93 (A) ORGANISM: homosapiens
94 (C) INDIVIDUAL ISOLATE: DK9
95
96 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
97
98 TAC CAA GTA CGC AAC TCC TCG GGC CTC TAC CAT GTC ACC 39
99 AAT GAT TGC CCT AAC TCG AGT ATT GTG TAC GAG GCG GCC 78

RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,691

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| 100 | GAT GCC ATC CTG CAT TCT CCA GGG TGT GTC CCT TGC GTT | 117 |
| 101 | CGC GAG GGT AAC GCC TCG AAA TGT TGG GTG GCG GTG GCC | 156 |
| 102 | CCC ACG GTG GCC ACC AGG GAC GGC AAG CTC CCC GCA ACG | 195 |
| 103 | CAG CTT CGA CGT CAC ATC GAT CTG CTT GTC GGG AGC GCC | 234 |
| 104 | ACC CTC TGC TCG GCC CTC TAT GTG GGG GAC TTG TGC GGG | 273 |
| 105 | TCT GTC TTC CTT GTC GGC CAA CTG TTC ACC TTC TCC CCC | 312 |
| 106 | AGA CGC CAC TGG ACA ACG CAA GAC TGC AAC TGT TCT ATC | 351 |
| 107 | TAC CCC GGC CAT ATT ACG GGT CAT CGC ATG GCG TGG GAT | 390 |
| 108 | ATG ATG ATG AAC TGG TCC CCT ACA GCA GCG CTG GTA ATG | 429 |
| 109 | GCG CAG CTG CTC AGG ATC CCG CAG GCC ATC TTG GAC ATG | 468 |
| 110 | ATC GCT GGT GCC CAC TGG GGA GTC CTA GCG GGC ATA GCG | 507 |
| 111 | TAT TTC TCC ATG GTG GGG AAC TGG GCG AAG GTC GTG GTG | 546 |
| 112 | GTA CTG TTG CTG TTT ACC GGC GTC GAT GCG | 576 |

113

114

115 (2) INFORMATION FOR SEQ ID NO:3:

116

117 (i) SEQUENCE CHARACTERISTICS:

118 (A) LENGTH: 576 base pairs

119 (B) TYPE: nucleic acid

120 (C) STRANDEDNESS: single

121 (D) TOPOLOGY: linear

122

123 (vi) ORIGINAL SOURCE:

124 (A) ORGANISM: homosapiens

125 (C) INDIVIDUAL ISOLATE: DR1

126

127 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

128

| | | |
|-----|---|-----|
| 129 | CAC CAA GTG CGC AAC TCT ACA GGG CTT TAC CAT GTC ACC | 39 |
| 130 | AAT GAT TGC CCT AAT TCG AGT ATT GTG TAC GAG GCG GCC | 78 |
| 131 | GAT GCC ATC CTG CAC GCG CCG GGG TGT GTC CCT TGC GTT | 117 |
| 132 | CGC GAG GGT AAC GCC TCG AGG TGT TGG GTG GCG GTG ACC | 156 |
| 133 | CCC ACG GTG GCC ACC AGG GAC GGC AAA CTC CCC ACA ACG | 195 |
| 134 | CAG CTT CGA CGT CAC ATC GAC CTG CTT GTC GGG AGC GCC | 234 |
| 135 | ACC CTC TGC TCG GCC CTC TAC GTG GGG GAC CTG TGC GGG | 273 |
| 136 | TCT GTC TTC CTT GTC GGT CAA CTG TTC ACC TTT TCT CCC | 312 |
| 137 | AGG CGC CAC TGG ACA ACG CAA GAC TGC AAT TGT TCT ATC | 351 |
| 138 | TAT CCC GGC CAT ATA ACG GGA CAC CGT ATG GCA TGG GAT | 390 |
| 139 | ATG ATG ATG AAC TGG TCC CCT ACG ACA GCG CTG GTA ATG | 429 |
| 140 | GCT CAG CTG CTC CGG ATC CCA CAA GCC ATC TTG GAC ATG | 468 |
| 141 | ATC GCT GGA GCC CAC TGG GGA GTC CTA GCG GGC ATA GCG | 507 |
| 142 | TAT TTC TCC ATG GTG GGG AAC TGG GCG AAG GTC GTG GTA | 546 |
| 143 | GTG CTG TTG CTG TTT GCC GGC GTT GAT GCG | 576 |

144

145

146 (2) INFORMATION FOR SEQ ID NO:4:

147

148 (i) SEQUENCE CHARACTERISTICS:

149 (A) LENGTH: 576 base pairs

150 (B) TYPE: nucleic acid

151 (C) STRANDEDNESS: single

152 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/084,691DATE: 06/05/98
TIME: 13:20:36

INPUT SET: S26411.raw

153
154 (vi) ORIGINAL SOURCE:
155 (A) ORGANISM: homosapiens
156 (C) INDIVIDUAL ISOLATE: DR4
157
158 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
159
160 CAC CAA GTG CGC AAC TCT ACA GGG CTT TAC CAT GTC ACC 39
161 AAT GAT TGC CCT AAT TCG AGT ATT GTG TAC GAG GCG GCC 78
162 GAT GCC ATC CTG CAC ACG CCG GGG TGT GTC CCT TGC GTT 117
163 CGC GAG GGT AAC ACC TCG AGG TGT TGG GTG GCG GTG ACC 156
164 CCC ACG GTG GCC ACC AGG GAC GGC AAA CTC CCC ACA ACG 195
165 CAG CTC CGA CGT CAC ATC GAC CTG CTT GTC GGG AGC GCC 234
166 ACC CTC TGC TCG GCC CTC TAC GTG GGG GAC TTG TGC GGG 273
167 TCT GTC TTC CTT GTC GGT CAA CTG TTC ACC TTC TCT CCC 312
168 AGG CAC CAC TGG ACA ACG CAA GAC TGC AAT TGT TCC ATC 351
169 TAT CCC GGC CAT ATA ACG GGC CAC CGC ATG GCG TGG GAT 390
170 ATG ATG ATG AAC TGG TCC CCT ACG ACA GCG CTG GTA GTA 429
171 GCT CAG CTG CTC CGG ATC CCA CAA GCC ATC TTG GAC ATG 468
172 ATC GCT GGT GCC CAC TGG GGA GTC CTA GCG GGC ATA GCG 507
173 TAT TTC TCC ATG GTG GGG AAC TGG GCG AAG GTC CTG GTA 546
174 GTG CTG TTG CTG TTT GCC GGC GTT GAT GCG 576
175
176
177 (2) INFORMATION FOR SEQ ID NO:5:
178
179 (i) SEQUENCE CHARACTERISTICS:
180 (A) LENGTH: 576 base pairs
181 (B) TYPE: nucleic acid
182 (C) STRANDEDNESS: single
183 (D) TOPOLOGY: linear
184
185 (vi) ORIGINAL SOURCE:
186 (A) ORGANISM: homosapiens
187 (C) INDIVIDUAL ISOLATE: S14
188
189 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
190
191 TAC CAA GTG CGC AAC TCC ACG GGG CTT TAC CAT GTT ACC 39
192 AAT GAT TGC CCT AAC TCG AGT ATT GTG TAC GAG ACA GCT 78
193 GAT GCT ATC CTA CAC GCT CCG GGA TGT GTC CCT TGC GTT 117
194 CGT GAG GGT AAC ACC TCG AGG TGT TGG GTG GCG ATG ACC 156
195 CCC ACG GTG GCC ACC AGG GAC GGC AAA CTC CCC GCA ACG 195
196 CAG CTT CGA CGT TAC ATC GAT CTG CTT GTC GGG AGC GCC 234
197 ACC CTC TGT TCG GCC CTC TAC GTG GGG GAC TTG TGC GGG 273
198 TCT GTC TTT CTT GTC GGT CAG CTG TTT ACC TTC TCT CCC 312
199 AGG CGC CTC TGG ACG ACG CAA GAC TGC AAT TGT TCT ATC 351
200 TAT CCC GGC CAT ATA ACG GGT CAT CGC ATG GCA TGG GAT 390
201 ATG ATG ATG AAC TGG TCC CCT ACG ACG GCA CTG GTA GTA 429
202 GCT CAG CTG CTC CGG ATC CCA CAA GCC ATC TTG GAT ATG 468
203 ATC GCT GGT GCT CAC TGG GGA GTC CTA GCG GGC ATA GCG 507
204 TAT TTC TCC ATG GTG GGA AAC TGG GCG AAG GTC CTA GTG 546
205 GTG CTG CTG CTA TTC GCC GGC GTT GAC GCG 576

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PATENT APPLICATION US/09/084,691DATE: 06/05/98
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INPUT SET: S26411.raw

206

207

208 (2) INFORMATION FOR SEQ ID NO:6:

209

210 (i) SEQUENCE CHARACTERISTICS:

211 (A) LENGTH: 576 base pairs

212 (B) TYPE: nucleic acid

213 (C) STRANDEDNESS: single

214 (D) TOPOLOGY: linear

215

216 (vi) ORIGINAL SOURCE:

217 (A) ORGANISM: homosapiens

218 (C) INDIVIDUAL ISOLATE: S18

219

220 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

221

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|-----|---|-----|
| 222 | TAC CAA GTA CGC AAC TCC ACG GGC CTT TAC CAT GTC ACC | 39 |
| 223 | AAT GAC TGC CCT AAC TCG AGC ATT GTG TAC GAG ACG GCC | 78 |
| 224 | GAT ACC ATC CTA CAC TCT CCG GGG TGT GTC CCT TGC GTT | 117 |
| 225 | CGC GAG GGT AAC GCC TCG AGA TGT TGG GTG CCG GTG GCC | 156 |
| 226 | CCC ACA GTT GCC ACC AGG GAC GGC AAA CTC CCC GCA ACG | 195 |
| 227 | CAG CTT CGA CGT CAC ATC GAT CTG CTT GTT GGG AGC GCC | 234 |
| 228 | ACC CTC TGC TCG GCC CTC TAT GTG GGG GAC CTG TGC GGG | 273 |
| 229 | TCT GTC TTT CTT GTC AGC CAG CTG TTC ACT ATC TCC CCC | 312 |
| 230 | AGG CGC CAC TGG ACA ACG CAA GAC TGC AAC TGT TCT ATC | 351 |
| 231 | TAC CCC GGC CAT ATA ACG GGT CAC CGT ATG GCA TGG GAT | 390 |
| 232 | ATG ATG ATG AAC TGG TCC CCT ACA ACG GCG TTG GTA ATA | 429 |
| 233 | GCT CAG CTG CTC AGG GTC CCG CAA GCC GTC TTG GAC ATG | 468 |
| 234 | ATC GCT GGT GCC CAC TGG GGA GTC CTA GCG GGC ATA GCG | 507 |
| 235 | TAT TTC TCC ATG GCG GGG AAC TGG GCG AAG GTC CTG CTA | 546 |
| 236 | GTG CTG TTG CTG TTT GCC GGC GTC GAT GCG | 576 |

237

238

239 (2) INFORMATION FOR SEQ ID NO:7:

240

241 (i) SEQUENCE CHARACTERISTICS:

242 (A) LENGTH: 576 base pairs

243 (B) TYPE: nucleic acid

244 (C) STRANDEDNESS: single

245 (D) TOPOLOGY: linear

246

247 (vi) ORIGINAL SOURCE:

248 (A) ORGANISM: homosapiens

249 (C) INDIVIDUAL ISOLATE: SW1

250

251 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

252

| | | |
|-----|---|-----|
| 253 | TAC CAA GTA CGC AAC TCC TCG GGC CTT TAC CAT GTC ACC | 39 |
| 254 | AAT GAT TGC CCT AAC TCG AGT ATT GTG TAC GAG ACG GCC | 78 |
| 255 | GAT GCC ATT CTA CAC TCT CCA GGG TGT GTC CCT TGC GTT | 117 |
| 256 | CGC GAG GAT GGC GCC CCG AAG TGT TGG GTG GCG GTG GCC | 156 |
| 257 | CCC ACA GTC GCC ACT AGG GAC GGC AAA CTC CCT GCA ACG | 195 |
| 258 | CAG CTT CGA CGT CAC ATC GAT CTG CTT GTC GGA AGC GCC | 234 |

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/084,691

DATE: 06/05/98
TIME: 13:20:38

INPUT SET: S26411.raw

| Line | Error | Original Text |
|------|---------------------------------|--|
| 32 | Wrong application Serial Number | (A) APPLICATION NUMBER: TO BE ASSIGNED |